REMARKS

The examiner's courtesy and cooperation in a personal interview on August 3, 2000

with Mr. Rupp and the undersigned are appreciatively acknowledged. As a result of the

foregoing amendment, the claims have been modified in accordance with the discussion during

that interview. In particular, claims 1-59 have been cancelled without prejudice and replaced

by new claims 60-71. New claims 60-64 recite one embodiment for a process for preparing

the completely biodegradable molded body of the present invention. Claim 65 recite a another

embodiment for producing the completely biodegradable molded body of the invention. Claims

66-71 are product-by-process claims dependent upon the two process claims.

As noted, the description of the molded body of the invention clearly points out that the

body is completely decomposable or biodegradable in accordance with the original disclosure

at the bottom of page 3. In addition, the process of claim 65 is described in the specification

in the specification bridging pages 21 and 22.

As a result of the foregoing amendment, it is believed that all of the various formal

rejections raised by the examiner in the rejection under the second paragraph of 35 U.S.C. §

112 have now been obviated. Thus, the various terms objected to by the examiner in that

rejection have been eliminated, and proper claim language has been used. In addition, the

problem with respect to lack of antecedent basis no longer appears in the amended claims.

Serial No. 09/029,408 September 26, 2000

5

Accordingly, the rejection under the second paragraph of 35 U.S.C. § 112 should be

withdrawn.

Reconsideration and withdrawal of the claims as being unpatentable over Mayer et al

'318 in view of Pommier et al '378 or Arnold et al WO '628 are requested. The examiner

cited Mayer et al '318 as showing cellulose acetate binders with starch and agricultural fillers.

The examiner recognized that Mayer et al does not teach using mixtures of short and long

fibers. But there are additional defects in Mayer et al. In particular, Mayer et al only

discloses a composition for making injection molded parts by mixing together solid ingredients

to feed into an injection molding machine. Thus no water can be utilized in the method and/or

composition disclosed in Mayer. In contrast, as is clearly disclosed in the present application

and specifically required in the claims as amended, water must be present because the molded

body of the present invention is obtained by baking. Thus, Mayer et al does not disclose any

composition in accordance with the present invention, much less, a method for baking the

composition into the desired molded shape. Mayer specifically requires an injection molding

process and a composition that is amenable to such a process.

The Pommier et al reference does not disclose a completely biodegradable body. In

particular, for example, at column 2, lines 59 and following, it is disclosed that synthetic fibers

are present in the support layer and that these fibers can be polyethylene in an amount of 20-

30% by weight. Clearly, polyethylene is not a biodegradable material and therefore Pommier

does not disclose a composition which is completely biodegradable and liquid resistant and

impermeable as required by the present claims.

Serial No. 09/029,408 September 26, 2000

6

Finally, with respect to the Arnold et al WO '628 reference, most certainly, this reference discloses the preparation of a composition which has many of the ingredients required by the present claims. However, there is absolutely no disclosure in Arnold et al of the presence of a hydrophobic layer or a component which makes the composition liquid impermeable. Thus, Arnold et al gives no information or motivation to include an ingredient or layer which would provide water-impermeability and yet would also be completely biodegradable. Neither of Mayer et al or Pommier et al contain any information which would suggest to the skilled artisan to do so, particularly in light of the absence of water in Mayer et al and the presence of a non-biodegradable component in Pommier et al. Accordingly, the rejection on this combination of references is untenable and should be withdrawn.

Reconsideration and withdrawal of the rejection of the claims as amended under 35 U.S.C. §103(a) as being unpatentable over Karas et al 'CA 669 or Suskind '962 in view of Pommier et al or Arnold et al are also requested. Karas is relied on as showing the lamination of a film of polylactide onto the face of a cellulose fiber web to produce a biodegradable web that is easily recycled. The examiner recognizes that Karas et al does not show the use of fibers of various sizes. However, as is clear from a complete copy of Karas (copy enclosed herewith) for the examiner's convenience, Karas et al is directed solely to a web which has a biodegradable binder. Indeed, the entire focus of the Karas Patent is the nature of the binder. For example, the binders utilized and disclosed are found from monomers which are biodegradable. However, as pointed out at column 7, lines 10-28, the binders aroused with synthetic fibers, including polyolefins, such as, polyethylene and polypropylene. Obviously, such fibers would not make a completely biodegradable product. Thus, Karas et al is not at

all concerned with making a completely biodegradable product since it is concerned solely with

the nature of the binder which can be used with a web of non-biodegradable fiber.

The Suskind Patent is cited as teaching a biodegradable container made from waste

paper that is covered with a film of polyester or covered with a polylactide coating. However,

this is not a completely accurate characterization of Suskind. Rather, the invention of Suskind

is directed to a paperboard which contains a coating of a biodegradable material and, on the

other side, a coating of a photodegradable material. Thus, as is clear from column 4, lines

60-65, in order to achieve the object of the invention, a compostable package for containing

liquids includes a base of paperboard having two sides with one side coated with a

biodegradable linear aliphatic polyester and the other side, a photodegradable polyolefin.

Clearly, such a photodegradable polyolefin is not a biodegradable material. Polyolefin is used

to prevent leaks. Suitable polyolefins include ethylenically unsaturated hydrocarbon (see colum

10, lines 31 and following). Accordingly, Suskind does not suggest to one skilled in the art

that it is important to have a completely biodegradable product and in fact using the teachings

of Suskind, one would not end up with a completely biodegradable product.

Pommier et al and Arnold et al have been discussed above and clearly, they also are

insufficient to suggest the combination of a biodegradable, baked, molded product which

includes a liquid impermeable barrier layer or which is impermeable to liquid. Accordingly,

this combination of references fails to meet the requirement of 35 U.S.C. § 103(a) and this

rejection should also be withdrawn.

Serial No. 09/029,408 September 26, 2000

8

Reconsideration and withdrawal of rejection of the claims as being unpatentable under

35 U.S.C. § 103 (a) over the Karas et al, Suskind et al, Pommier et al and Arnold et al Patents

taken in view of Tanner et al '858 are also respectfully requested.

As seen from the argument advanced above, none of Karas et al, Suskind et al,

Pommier et al and Arnold et al are concerned with a method for making a molded body which

is both completely biodegradable as well as liquid resistant or impenetrable. Tanner et al adds

nothing to these primary references to make them more relevant to the present invention. The

examiner cites Tanner et al as showing the application of a heat-sealable interior barrier layer

onto paperboard. The examiner asserts that Tanner et al does not show the use of applicants'

fiber/starch composites. However, Tanner et al, in addition, is directed to a paper-board based

package which contains a non-biodegradable layer namely, polyethylene. Thus, as is clear

from column 2, lines 15 and following, a preferred embodiment of the laminate structure

comprises a paperboard substrate, a matte layer of polyethylene extrusion coated onto the

product-contact side of the paper board and a gloss layer of a biodegradable thermoplastic

material extrusion coated on the exterior of the paperboard. Consequently, Tanner et al is not

directed to a completely biodegradable material. Accordingly, the combination of these

references simply do not leave the skilled artisan to a moldable composite which is both

biodegradable and liquid impenetrable as is required by the present claims as amended. This

rejection should also be withdrawn.

In view of the foregoing, as well of the examiner's indication in the interview that

agreement had been reached with respect to allowability of at least certain of the claims, it is

9

Serial No. 09/029,408 September 26, 2000

submitted that this application is now in condition for allowance and prompt notice of allowance are earnestly solicited.

Respectfully submitted,

REED SMITH SHAW & McCLAY, LLP

eg. No. 24,408

September 29, 2000 261 Madison Avenue

New York, New York 10016-2391

Tel: (212) 986-4090

JEG:ss

Serial No. 09/029,408 September 26, 2000